



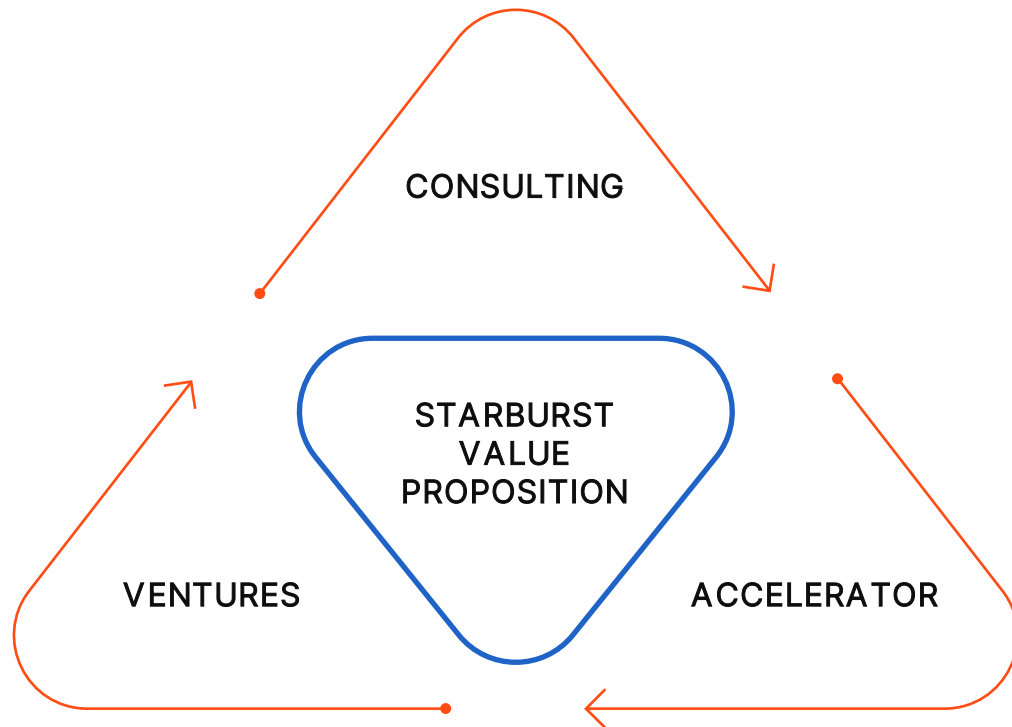
# Acceleration Programmes

01.

Introducing  
Starburst.



Starburst combines 3 complementary activities to create a specialized value-add offering



A range of services fulfilling the needs of all businesses interested in Aerospace innovation: startups, corporates, institutions, investors

## CONSULTING

- Growth (new products, new markets)
- Custom technology scouting
- Agile collaboration and transformation
- Innovation performance

## ACCELERATOR

- Custom technology scouting
- Map startup capabilities to corporate needs
- Preparation to Seed and Series A rounds

## VENTURES

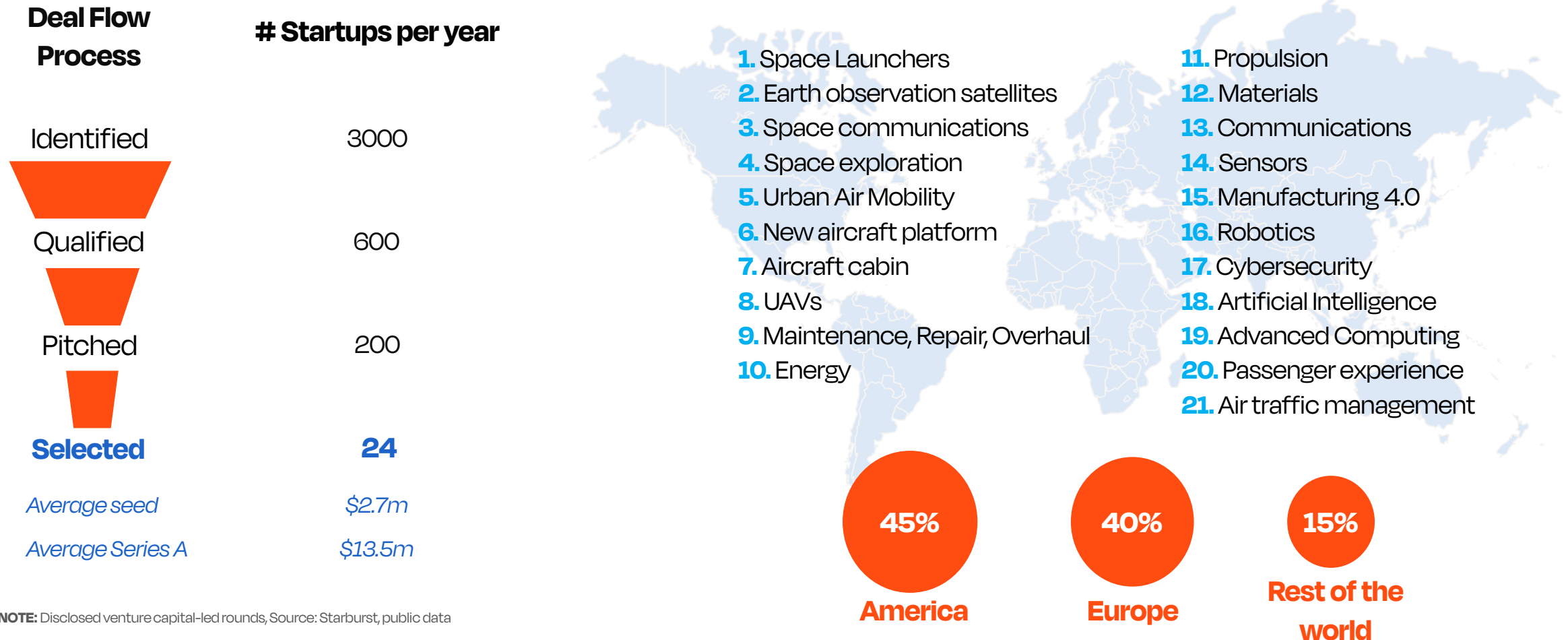
- Global Aerospace fund
- Limited Partner investment opportunity
- 90+ portfolio startups

# Starburst has rapidly grown to reach a global presence.



# STARBURST IDENTIFIES 3000 NEW STARTUPS PER YEAR ACROSS 21 VERTICALS AROUND THE GLOBE

Proprietary database of more than 12,000 aerospace startups





We have built a unique global ecosystem of innovators for the A&D sector

80

Starburst  
Employees

10

Countries

99

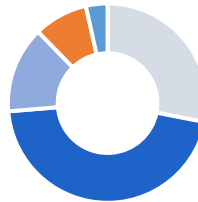
Startups Invested  
in To-Date

60+

Corporate & Gov.  
Partners



Startup  
Maturity



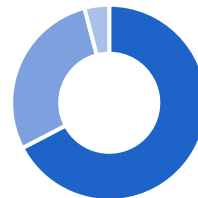
- Pre-Seed
- Seed
- Series A

Industry  
Focus



- Aviation
- Space
- Defense
- Enabling Technologies

Geography



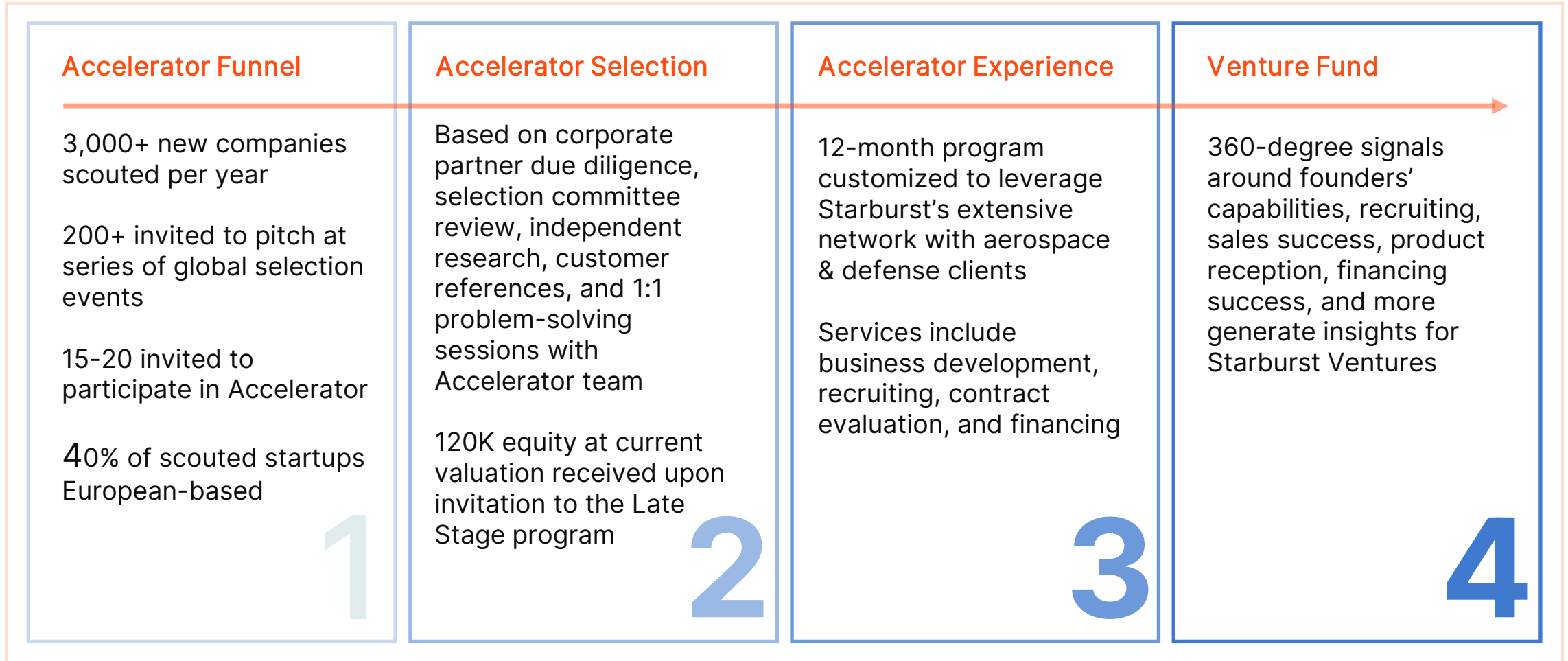
- North America
- Europe

14,000+  
Aerospace Startups  
Identified

1,000+  
Investors  
Identified



Starburst aims to cover the entire innovation value chain by ultimately investing in best-in-class Late Stage start-ups





Starburst aims to cover the entire innovation value chain by ultimately investing in best-in-class start-ups in the ASD sectors

Initial Ticket Size

€0.1M – €3M

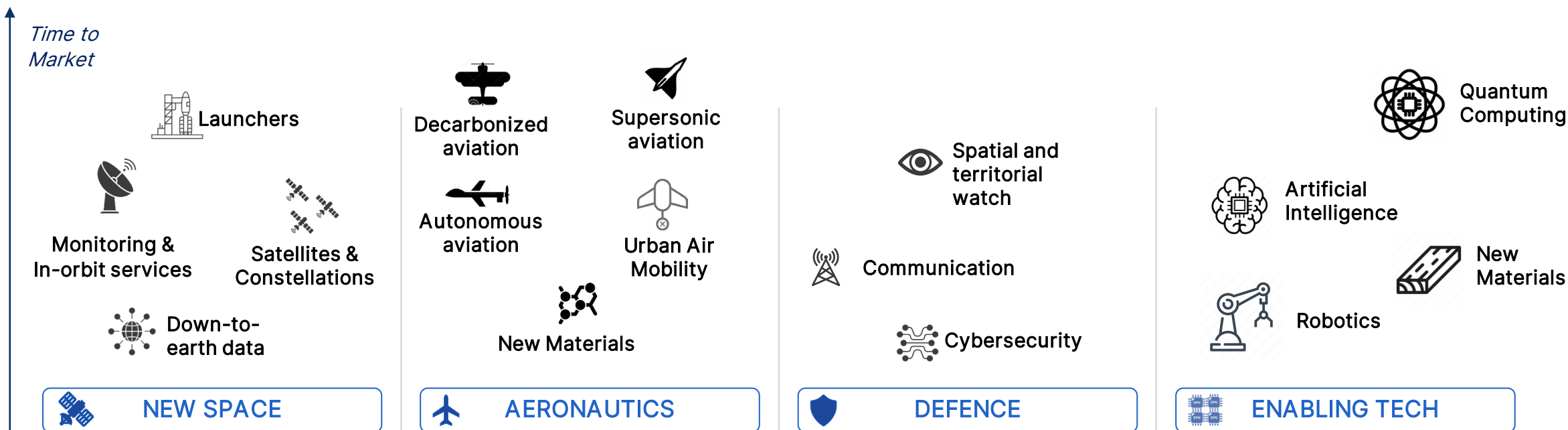
Deployment Period

4 years

First Closing Target

€100M

### Targeted sectors





02.

Our Programmes.



Starburst has a strong experience building robust accelerator programmes with key aerospace & defense stakeholders



Supporting startups from ideation to growth, with programs tailored to different maturities

## Early Stage

CONCEPT  
|  
PRODUCT

3 months  
Location Specific

- Productization
- Entity formation
- Seed Prep

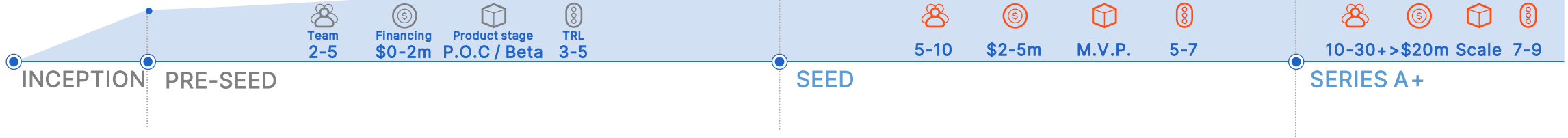


## Late Stage

SEED  
|  
SERIES B

12 months  
Global

- Business development
- Visibility & PR
- Fundraising Prep



Open  
innovation

With Corporates and  
Governments





Starburst is a trusted partner to set up and operate industry specific accelerator programs for clients – Snapshots of some programmes



Country



Customer Partner

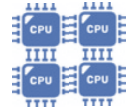
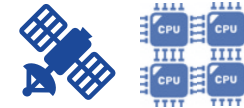
French Government

University of California, Los Angeles (UCLA)

NASA

Israel Aerospace Industries

Industry Focus



Programme Duration

- 2x 9-month cohorts over a 2-year contract with the French Government

- 13-week intensive programme with multiple cohorts

- 10-week intensive programme

- 3-to-7-month programme

Programme Partners

- Consortium between Starburst, Onera, SATT & Ecole Polytechnique

- Backed by the Department of Commerce & supported MITRE, RAND, Aerospace Corp

- Backed By NASA Science Mission Directorate, Earth Science Technology Office, Jet Propulsion Laboratory

- Backed by Israel Aerospace Industries and Shenkar Space Lab

03.

The BLAST  
program.

# The first French accelerator for early-stage projects in Aerospace & Defense.

## OBJECTIVE

Develop and accelerate research projects and startups in ASD. Help project leaders to carry out their technical developments, to structure their business and to raise Seed funds.

## AMBITION

Create a strong and innovative ecosystem, at the forefront of Deeptech technologies, to meet the future challenges and industrial programs of the major ASD players in France and in Europe.

# A modular program, adapted to individual needs.



## Module 1 Entrepreneurship class

Project **coaching** on  
opportunity & market  
aspects

DeepTech  
**entrepreneurship**  
certificate



## Module 3 Expertise & test means

Identification and  
**validation** of  
innovative  
technologies and  
projects

Specialised in ASD  
**R&D**



## Module 4 IP & Technology

**Operational support** of  
projects for validation

IP **portfolio**  
**management**

Placement of  
technologies



## Module 6 Acceleration Bootcamp

## Module 2 ASD market class

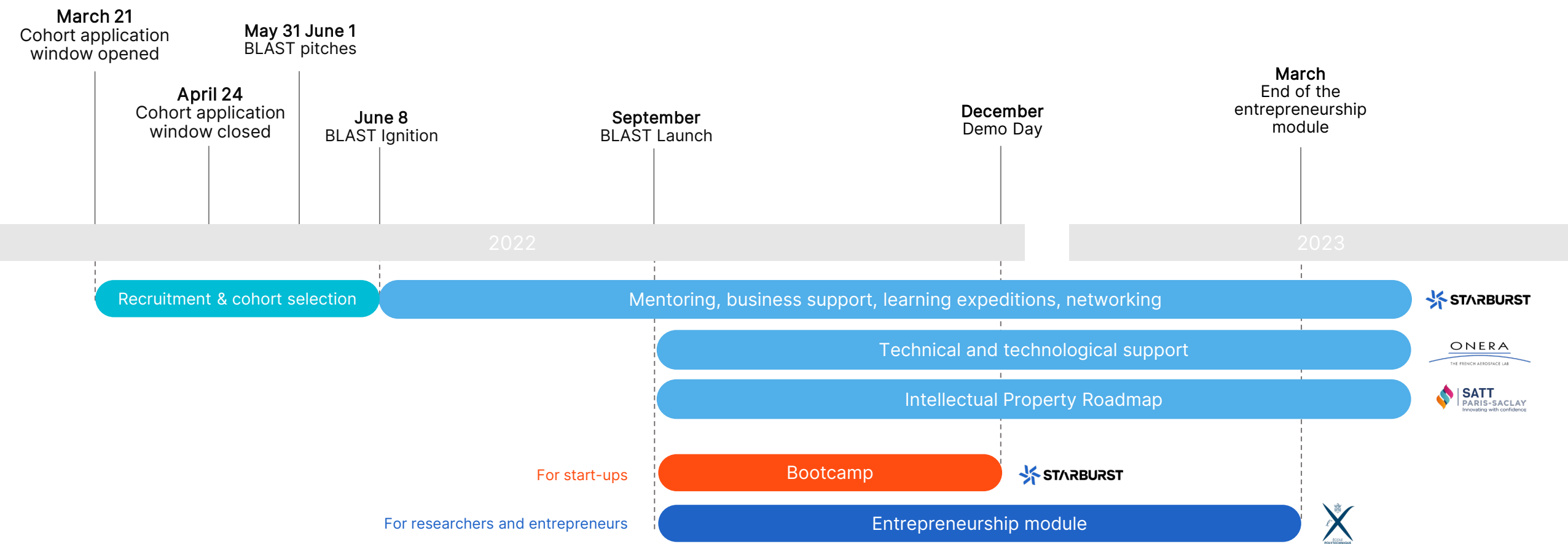
## Module 5 Ecosystem discovery

**Acceleration** to  
**industrialisation** phase

**Mentoring**



# A Bootcamp for **start-ups**, an entrepreneurship master for **researchers** and a base of **common actions**.



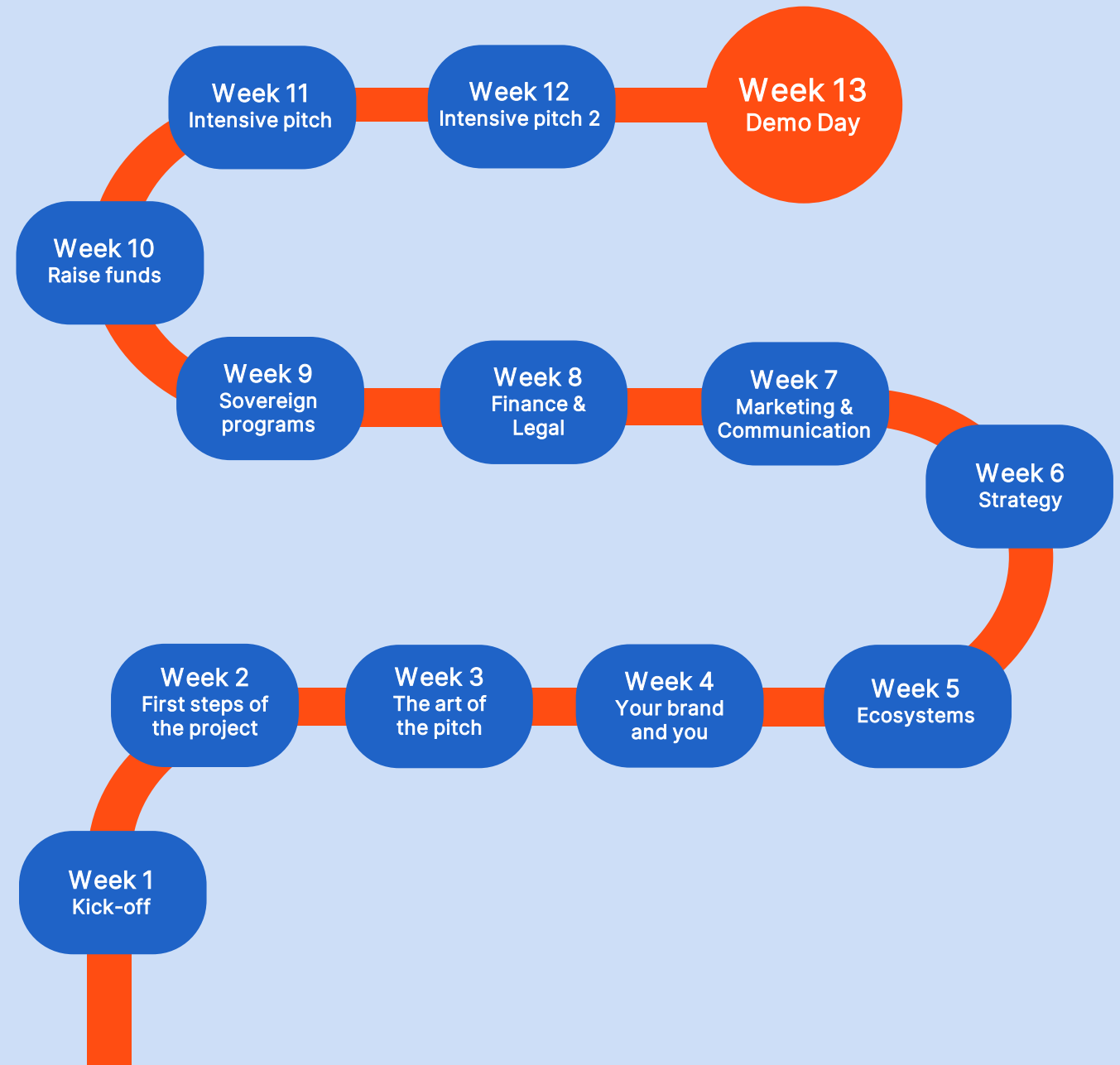




# Focus on the Bootcamp

Provide intensive support actions to mature startups in order to enable them to raise Seed funds. Module to end with a Demo Day in front of investors and corporates.

# A 13-week intensive acceleration programme.



A person is shown in profile, pointing at a whiteboard. The whiteboard is covered with numerous sticky notes of various colors (yellow, blue, pink) and handwritten text. The person's hand is visible, pointing towards the notes. The background is slightly blurred, showing a window with blinds.

# 60 mentors supporting the startups.



## On Business & Finance.

Experienced people, working for ASD or not, providing general and thematic advice according to their expertise, following three levels of involvement.

Level of  
involvement

### Lecturer

One time lecture  
in a fixed  
curriculum

### Expert

Coach founders  
on a precise  
subject of  
knowledge over a  
few interaction

### Lead Mentor

Frequent  
exchange with the  
founders  
over a period of 3  
to 7 months

A person is shown in profile, pointing their finger at a wall covered in numerous sticky notes. The scene is dimly lit, with the person's face and hand highlighted by a light source. The sticky notes are of various colors and contain handwritten text, suggesting a collaborative workspace or a brainstorming session.

# 60 mentors supporting the startups.



## On Business & Finance.

Experienced people, working for ASD or not, providing general and thematic advice according to their expertise, following three levels of involvement.



## On Technics.

ONERA researchers providing 100 hours of support to each project to assist them in their technical developments.

# The 4 pillars of the Bootcamp.



## Lectures

Presentations by senior mentors on key topics.  
6-10 lectures a week.



## Office hours

Weekly meetings with startups to advise them on business development, fundraising and pitching.



## Pitch sessions

Train the startups to pitch in front of the Starburst team and mentors.



## Networking events

Networking and conviviality.



# The 2021 BLAST cohort.



**Regional  
aviation**

Electric motorization for light aircrafts.



**Beyond Aero**

**Regional  
aviation**

Hydrogen-powered business aircrafts.

**CAPS** **UAM**

Autonomous capsules dedicated to the UAM.



**AI &  
Robotics**

AI product to simulate autonomous systems in a changing environment.



**Space  
launchers**

Launcher with hybrid propulsion.



**Materials**

Composite material from recycled cellulose.



**Laser coms**

Atmospheric characterization for optical communications.



**Regional  
aviation**

Ecological air mobility service.



**Naval**

Autonomous surface vessel for the collection of oceanographic data.



**Algorithms**

Optimization of the performance of embedded systems.



**Space  
launchers**

Nano launcher for small satellites.



**Space  
debris**

Solar sail to de-orbit end-of-life satellites.

**Guillaume  
DRUART** **Optics**

Detection of gas leaks by infrared camera.






















**Nathalie  
LEBORGNE** **Materials**

Decrease of the leakage of balloons envelopes.

**Armin  
TAGHIZAD** **Drones**

Drone for heavy load transport.

# Achievements in the 2021 cohort.

Startup	Product	Specific actions	Fundraising?
	Electric motorisation for light aircraft.	<ul style="list-style-type: none"> <li>Support at the DGAC</li> <li>Presence in the media</li> </ul>	
	Hydrogen-powered business aircraft.	<ul style="list-style-type: none"> <li>Investors and clients intros</li> <li>Transfer of an ONERA patent</li> </ul>	
<b>CAPS</b>	Autonomous capsules dedicated to the UAM	<ul style="list-style-type: none"> <li>Investors and clients intros</li> <li>Support at the DGAC</li> </ul>	
	AI product to simulate autonomous systems in a changing environment.	<ul style="list-style-type: none"> <li>Support at the AID and French DOD</li> <li>Presence in the media</li> </ul>	
	Launcher with hybrid propulsion.	<ul style="list-style-type: none"> <li>Support at the CNES</li> <li>Presence in the media</li> </ul>	
	Composite material from recycled cellulose.	<ul style="list-style-type: none"> <li>Definition of the business model</li> <li>Technical support</li> </ul>	
	Atmospheric characterization for optical communications.	<ul style="list-style-type: none"> <li>CNES and investors intros</li> <li>Presence in the media</li> </ul>	
	Ecological air mobility service.	<ul style="list-style-type: none"> <li>Connection with business mentors</li> </ul>	
	Autonomous surface vessel for the collection of oceanographic data.	<ul style="list-style-type: none"> <li>Support to respond to a European call</li> </ul>	
	Optimization of the performance of embedded systems.	<ul style="list-style-type: none"> <li>Intro technical and business partners</li> <li>Support at the CNES</li> </ul>	
	Nano launcher for small satellites.	<ul style="list-style-type: none"> <li>Investors intros</li> <li>Presentation to the military staffs</li> </ul>	

# BLAST in few figures



**4** fundraisings  
6 of which are  
in progress



**35** connections  
with investors



**150h**  
of office hours

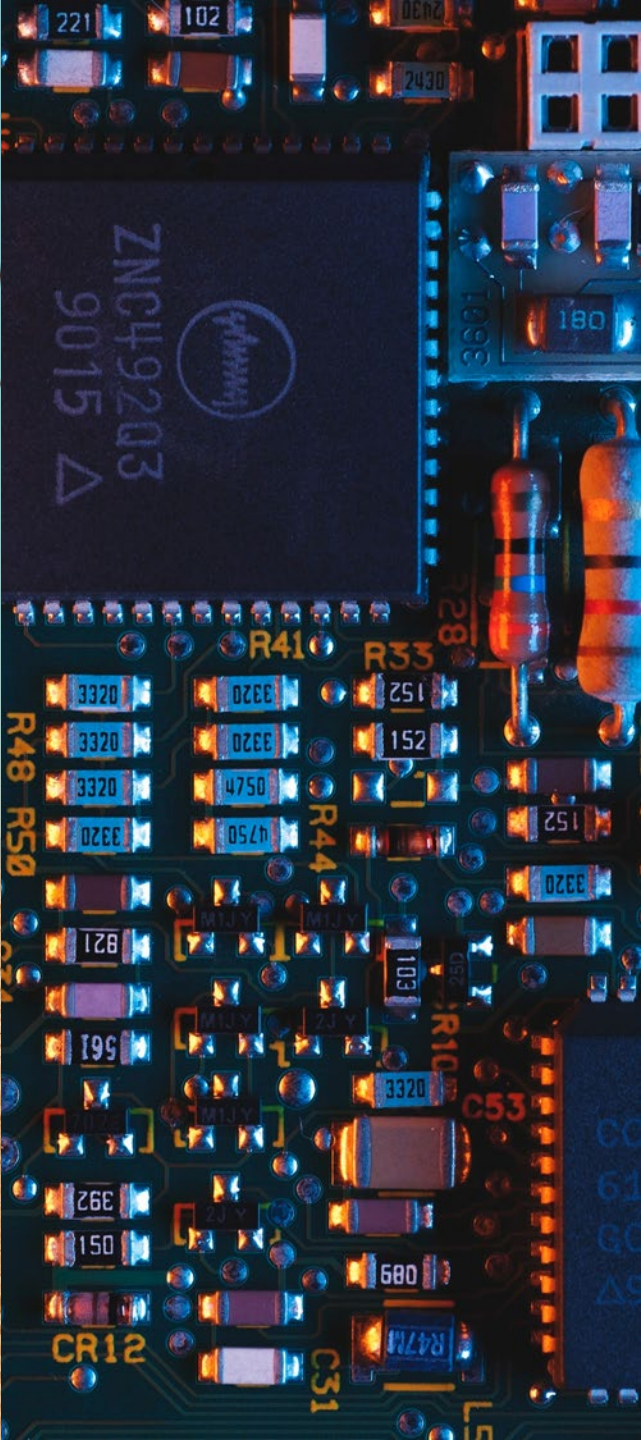


**60** mentors



**10** highlights  
of the cohort





17 projects  
in the 2022  
cohort.

13  
startups.

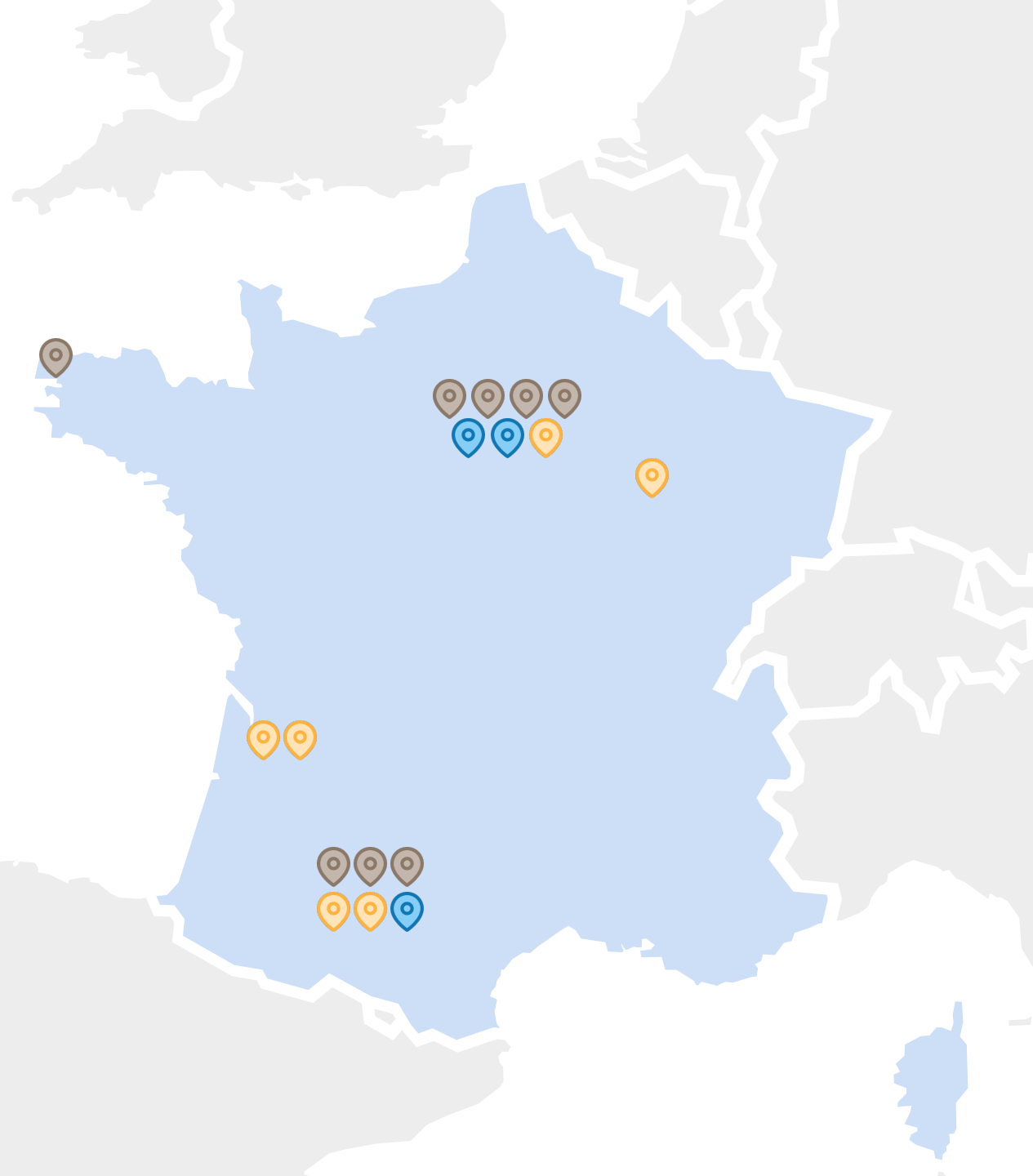
4  
researchers.

 Aviation

 Defense

 Space

 Enabling  
technologies





# The 2022 BLAST cohort.



## Drones

High-capacity UAV for industry needs.



## New Transports

Clean and cost-effective hydrogen airships



## New Transports

Hydrogen powered aircraft consisting of a carrier and interchangeable varied nacelles.



## Space Communication

Very low Earth orbit constellation enabling global connectivity.



## Earth Observation

Earth observation and AI for fighting against environmental crimes.



## Earth Observation

Earth observation for the monitoring of carbon biological sequestration.



## Propulsion

100% electric plasma-based jet engines.



## Cargo

Cargo container that fits on the empty seats of passenger aircraft.



## Communications

AI-empowered wireless connectivity for the future aerospace industry.



## Cybersecurity

Full-stack encrypted communication solutions based on quantum technologies.



## Industry 4.0

Software as a service allowing users to prototype and test space systems



## Satellite Platform

Flexible hosting of payloads in orbit with access to high end systems.



## Drones

100% omnidirectional, ultra-fast, ultra-maneuverable drones.



## Space Exploration

Near Earth Asteroids mining.



## Propulsion

Highly efficient low power static engine.



## Earth Observation

Low Earth Orbit Surveillance data and services based on a proprietary radar sensor network.



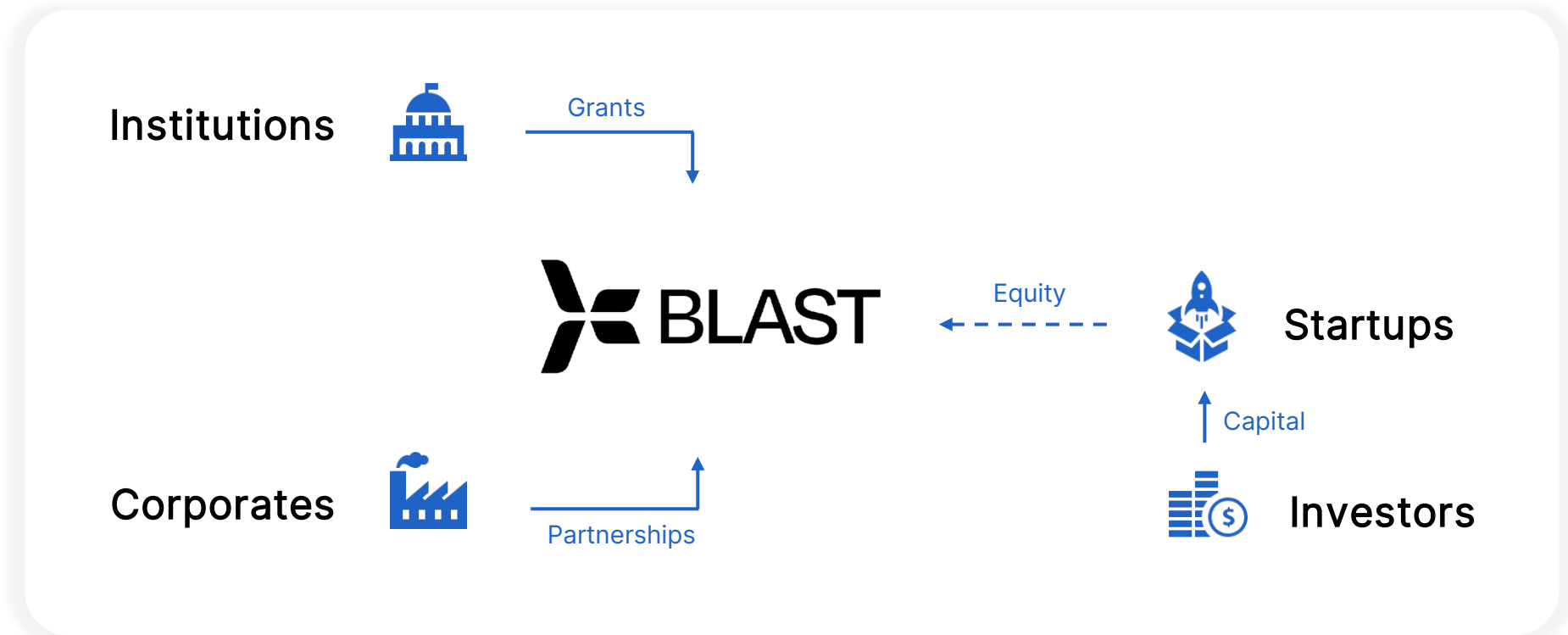
## Gravitational Waves

Move objects with gravitational waves.

03.

Partnering  
with BLAST.

A **financing model** based  
on the involvement  
of the entire Deeptech ecosystem.





# Strategic partnerships.

BLAST is already supported by major players in the of the French Deeptech ecosystem, and is still looking to open new partnerships.

## Funders

**bpi**france

 Région  
île de France

**MBDA**  
MISSILE SYSTEMS  
  
**cnes**

## Supports

 **AGENCE  
INNOVATION  
DÉFENSE**



  
OVH.com

  
Maddyne

04.

**Our Ambition for  
2030.**





Making France the world leader in  
in Aerospace and Defense Deeptech,  
Space and Defense.



# Let's make BLAST the national reference program for the development of of the French DSA.

The next step for BLAST is to increase its strike force, through the integration of local players.

This approach will allow us to set up a coherent support program and to accelerate tomorrow's French unicorns even more efficiently.



# Preparing in the Region to better raise funds in Paris and create jobs in your region.



## Year 1

Structuring of the entrepreneurial process on the territory and preparation to integrate BLAST Acceleration

**Output:** Labeling  
BLAST Emergence



## Year 2

Acceleration of the project in Paris to prepare for the first industrial partnerships and fundraising

**Output:** First Seed round

## Finally...

Accompaniment to development on the territory, establishment, HR support,...

**Output:** Job creation and innovation on the territory

**Our ambition is to propose  
a national BLAST consisting of  
BLAST Emergence in the regions  
and the BLAST Acceleration with all ours  
partners for the next SIA call.**

Join BLAST.